

Cristian Cirac

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

3,614
citations

23
h-index

60
g-index

69
ext. papers

4,221
ext. citations

6.8
avg, IF

5.46
L-index

#	Paper	IF	Citations
51	Numerical Calculation of the Light Propagation in Tapered Optical Fibers for Optical Neural Interfaces.. <i>Journal of Lightwave Technology</i> , 2022 , 40, 196-205	4	0
50	Holographic Manipulation of Nanostructured Fiber Optics Enables Spatially-Resolved, Reconfigurable Optical Control of Plasmonic Local Field Enhancement and SERS.. <i>Small</i> , 2022 , e2200975 ¹¹		
49	Laplacian-Level Quantum Hydrodynamic Theory for Plasmonics. <i>Physical Review X</i> , 2021 , 11,	9.1	8
48	A nested hybridizable discontinuous Galerkin method for computing second-harmonic generation in three-dimensional metallic nanostructures. <i>Journal of Computational Physics</i> , 2021 , 429, 110000	4.1	0
47	Impact of Surface Roughness in Nanogap Plasmonic Systems. <i>ACS Photonics</i> , 2020 , 7, 908-913	6.3	14
46	Terahertz and infrared nonlocality and field saturation in extreme-scale nanoslits. <i>Optics Express</i> , 2020 , 28, 8701-8715	3.3	2
45	Label-free biomechanical nanosensor based on LSPR for biological applications. <i>Optical Materials Express</i> , 2020 , 10, 1264	2.6	3
44	Mode-Matching Enhancement of Second-Harmonic Generation with Plasmonic Nanopatch Antennas. <i>ACS Photonics</i> , 2020 , 7, 3333-3340	6.3	5
43	Enhancing second-harmonic generation with electron spill-out at metallic surfaces. <i>Communications Physics</i> , 2020 , 3,	5.4	5
42	Modeling and observation of mid-infrared nonlocality in effective epsilon-near-zero ultranarrow coaxial apertures. <i>Nature Communications</i> , 2019 , 10, 4476	17.4	17
41	Numerical Analysis of Nonlocal Optical Response of Metallic Nanoshells. <i>Photonics</i> , 2019 , 6, 39	2.2	12
40	Plasmonic quantum effects on single-emitter strong coupling. <i>Nanophotonics</i> , 2019 , 8, 1821-1833	6.3	13
39	Difference-frequency generation in plasmonic nanostructures: a parameter-free hydrodynamic description. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 1979	1.7	3
38	Influence of spatial dispersion on surface plasmons, nanoparticles, and grating couplers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 2989	1.7	4
37	Nanowire-Intensified Metal-Enhanced Fluorescence in Hybrid Polymer-Plasmonic Electrospun Filaments. <i>Small</i> , 2018 , 14, e1800187	11	10
36	Optical properties of plasmonic core-shell nanomatryoshkas: a quantum hydrodynamic analysis. <i>Optics Express</i> , 2018 , 26, 17322-17334	3.3	12
35	Plasmonic Nonlocal Response Effects on Dipole Decay Dynamics in the Weak- and Strong-Coupling Regimes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22361-22368	3.8	18

34	Current-dependent potential for nonlocal absorption in quantum hydrodynamic theory. <i>Physical Review B</i> , 2017 , 95,	3.3	42
33	Nonlocal Plasmonic Response and Fano Resonances at Visible Frequencies in Sub-Nanometer Gap Coupling Regime. <i>ACS Photonics</i> , 2016 , 3, 2467-2474	6.3	8
32	Quantum hydrodynamic theory for plasmonics: Impact of the electron density tail. <i>Physical Review B</i> , 2016 , 93,	3.3	80
31	Influence of spatial dispersion in metals on the optical response of deeply subwavelength slit arrays. <i>Physical Review B</i> , 2016 , 93,	3.3	12
30	Toward Cavity Quantum Electrodynamics with Hybrid Photon Gap-Plasmon States. <i>ACS Nano</i> , 2016 , 10, 11360-11368	16.7	47
29	Enhancement of radiative processes in nanofibers with embedded plasmonic nanoparticles. <i>Optics Letters</i> , 2016 , 41, 1632-5	3	2
28	Numerical tool to take nonlocal effects into account in metallo-dielectric multilayers. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015 , 32, 1581-8	1.8	23
27	Nanogap-enhanced infrared spectroscopy with template-stripped wafer-scale arrays of buried plasmonic cavities. <i>Nano Letters</i> , 2015 , 15, 107-13	11.5	113
26	Third-harmonic generation in the presence of classical nonlocal effects in gap-plasmon nanostructures. <i>Physical Review B</i> , 2015 , 91,	3.3	30
25	Second harmonic generation with plasmonic metasurfaces: direct comparison of electric and magnetic resonances. <i>Optical Materials Express</i> , 2015 , 5, 2682	2.6	17
24	Third-Harmonic Generation Enhancement by Film-Coupled Plasmonic Stripe Resonators. <i>ACS Photonics</i> , 2014 , 1, 1212-1217	6.3	96
23	Probing the mechanisms of large Purcell enhancement in plasmonic nanoantennas. <i>Nature Photonics</i> , 2014 , 8, 835-840	33.9	655
22	Control of radiative processes using tunable plasmonic nanopatch antennas. <i>Nano Letters</i> , 2014 , 14, 4797-802	11.9	152
21	Numerical studies of the modification of photodynamic processes by film-coupled plasmonic nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 2601	1.7	25
20	Giant fluorescence enhancement of molecules coupled to plasmonic nanoscale patch antennas 2014 ,		1
19	Enhanced optical bistability with film-coupled plasmonic nanocubes. <i>Applied Physics Letters</i> , 2014 , 104, 063108	3.4	41
18	Film-coupled nanoparticles by atomic layer deposition: Comparison with organic spacing layers. <i>Applied Physics Letters</i> , 2014 , 104, 023109	3.4	45
17	Quasi-analytic study of scattering from optical plasmonic patch antennas. <i>Journal of Applied Physics</i> , 2013 , 114, 163108	2.5	30

16	Impact of nonlocal response on metallodielectric multilayers and optical patch antennas. <i>Physical Review B</i> , 2013 , 87,	3.3	77
15	Hydrodynamic model for plasmonics: a macroscopic approach to a microscopic problem. <i>ChemPhysChem</i> , 2013 , 14, 1109-16	3.2	113
14	Plasmonic waveguide modes of film-coupled metallic nanocubes. <i>Nano Letters</i> , 2013 , 13, 5866-72	11.5	189
13	Effects of classical nonlocality on the optical response of three-dimensional plasmonic nanodimers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 2731	1.7	23
12	Far-field analysis of axially symmetric three-dimensional directional cloaks. <i>Optics Express</i> , 2013 , 21, 9397-406	3.5	24
11	Surfaces, films, and multilayers for compact nonlinear plasmonics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 2999	1.7	11
10	Controlled-reflectance surfaces with film-coupled colloidal nanoantennas. <i>Nature</i> , 2012 , 492, 86-9	50.4	540
9	Probing the ultimate limits of plasmonic enhancement. <i>Science</i> , 2012 , 337, 1072-4	33.3	814
8	Second-harmonic generation in metallic nanoparticles: Clarification of the role of the surface. <i>Physical Review B</i> , 2012 , 86,	3.3	90
7	Origin of second-harmonic generation enhancement in optical split-ring resonators. <i>Physical Review B</i> , 2012 , 85,	3.3	114
6	Enhancing four-wave-mixing processes by nanowire arrays coupled to a gold film. <i>Optics Express</i> , 2012 , 20, 11005-13	3.3	27
5	Sub-wavelength light localization in nanorod chain enhances second-harmonic generation. <i>Optics Express</i> , 2010 , 18, 15377-82	3.3	1
4	Second harmonic generation in a generic negative index medium. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 1671	1.7	13
3	Focusing of second-harmonic signals with nonlinear metamaterial lenses: a biphotonic microscopy approach. <i>Physical Review Letters</i> , 2009 , 103, 063901	7.4	11
2	Theory of backward second-harmonic localization in nonlinear left-handed media. <i>Physical Review B</i> , 2008 , 78,	3.3	13
1	Second harmonic localization in nonlinear photonic crystals 2008 ,		1